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## What is claimed is:

1	•	An aerosolization system comprising:
		an aerosolization device comprising a chamber adapted to receive a
receptacle: and		

a receptacle containing a pharmaceutical formulation, the receptacle comprising a wall having a weakened portion that opens when a force is applied,

whereby an opening into the receptacle may be created at the weakened portion before, during, or after insertion of the receptacle into the chamber by applying a force to the receptacle.

- 2. An system according to claim 1 wherein the weakened portion comprises a region of the wall altered so as to fracture at a force less than would be necessary without the alteration.
- 3. A system according to claim 1 wherein the weakened portion comprises a scored region and/or a portion of the wall having a reduced thickness.
- 4. A system according to claim 1 wherein the aerosolization device comprises a force applying member to apply a force to the weakened portion to create the opening in the receptacle.
  - 5. A system according to claim 4 wherein the force applying member comprises a moveable portion of the chamber.
    - 6. A system according to claim 5 wherein the movable portion is a flexible wall.
- 30 7. A system according to claim 4 wherein the force applying member comprises an opening mechanism slidably moveable within the chamber.

- 8. A system according to claim 7 wherein the opening mechanism comprises a opening member having a blunt tip.
  - 9. A system according to claim 1 wherein the receptacle comprises a capsule.

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10. A system according to claim 9 wherein the capsule comprises a wall comprising one or more of gelatin, hydroxypropyl methylcellulose, polyethyleneglycol-compounded hydroxypropyl methylcellulose, hydroxyproplycellulose, and agar.

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- 11. A system according to claim 1 wherein the receptacle contains a powder pharmaceutical formulation.
- 12. A system according to claim 11 wherein the powder pharmaceutical formulation comprises particles having a mass median diameter less than 10  $\mu$ m.

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- 13. A system according to claim 11 wherein the powder pharmaceutical formulation has a moisture content below 5% by weight.
- 14. A method of aerosolizing a pharmaceutical formulation, the method comprising:

providing an aerosolization device comprising a chamber;

providing a receptacle containing a pharmaceutical formulation, the receptacle comprising a wall having a weakened portion that opens when a force is applied; applying a force to the receptacle to create an opening at the weakened

portion;

before, during, or after applying the force to the receptacle, inserting the receptacle into the chamber; and

aerosolizing the pharmaceutical formulation in the chamber.

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15. A method according to claim 14 wherein the force is applied by a blunt member.

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- 16. A method according to claim 14 wherein the force is applied after the receptacle is inserted into the chamber.
- 17. A method according to claim 16 wherein the force is applied by moving a wall of the chamber.
- 18. A method according to claim 16 wherein the force is applied by sliding a member within the chamber.
- 19. A method according to claim 14 wherein the applied force causes the weakened portion to break at a scored region.
- 20. A method according to claim 14 wherein the applied force causes the weakened portion to break at a region of reduced wall thickness.
  - 21. A method according to claim 14 comprising aerosolizing the pharmaceutical formulation by dispersing the pharmaceutical formulation in an air or gas stream.
  - 22. A method according to claim 21 wherein the air or gas stream is generated by a users inhalation.
    - 23. A method according to claim 21 wherein the air or gas stream is from a source of pressurized gas.
      - 24. A method according to claim 14 wherein the receptacle comprises a capsule.
    - 25. A method according to claim 14 wherein the receptacle contains a powder pharmaceutical formulation.

- 26. A method according to claim 25 wherein the powder pharmaceutical formulation comprises particles having a mass median diameter less than 10  $\mu$ m.
- 27. A receptacle for use in an aerosolization device comprising a chamber adapted to receive the receptacle, the receptacle comprising:

a wall having a weakened portion that opens when a force is applied; and a pharmaceutical formulation within the wall,

whereby an opening may be created at the weakened portion before, during, or after insertion of the receptacle into the chamber by applying a force to the receptacle.

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- 28. A receptacle according to claim 27 wherein the weakened portion comprises a region of the wall altered so as to fracture at a force less than would be necessary without the alteration.
- 29. A receptacle according to claim 27 wherein the weakened portion comprises a scored region and/or a portion of the wall having a reduced thickness.
  - 30. A receptacle according to claim 27 wherein the weakened portion is opened when a blunt force is applied.

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- 31. A receptacle according to claim 27 wherein the receptacle is a capsule.
- 32. A receptacle according to claim 31 wherein the capsule comprises a wall comprising one or more of gelatin, hydroxypropyl methylcellulose, polyethyleneglycol-compounded hydroxypropyl methylcellulose, hydroxyproplycellulose, and agar.
- 33. A receptacle according to claim 27 wherein the receptacle contains a powder pharmaceutical formulation.
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- 34. A receptacle according to claim 33 wherein the powder pharmaceutical formulation comprises particles having a mass median diameter less than 10  $\mu$ m.

35. A receptacle according to claim 33 wherein the powder pharmaceutical formulation has a moisture content below 5% by weight.

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